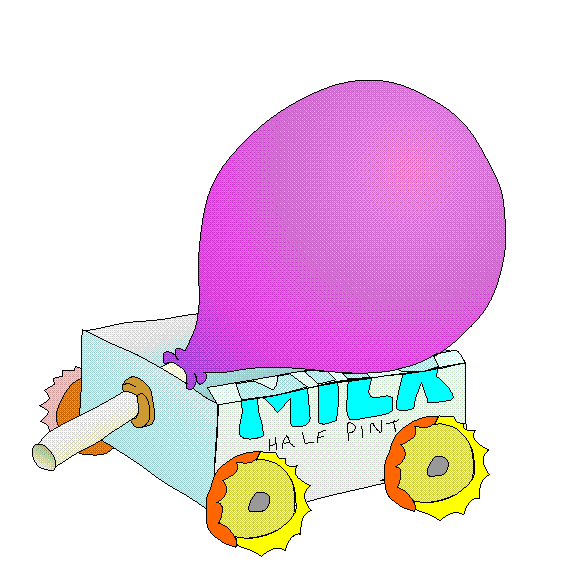
*Balloon Racer Car*

Materials:

* Empty tissue box or other small cardboard box
* 2 straws
* 2-4 wooden skewers
* 4 drink lids or other “wheels”
* Duct tape
* Glue (optional)
* Balloon

Directions:

1. If using 4 skewers, attach two wooden skewers together (length wise- end to end) with a small piece of duct tape.
2. If using 2 skewers, leave alone.
3. Cut the box in half (lengthwise).
4. Poke 4 holes for the axles to run through. Place them evenly on each side.
5. Thread the skewers through these holes and attach a wheel to each side.
6. Poke the skewer through the wheel and hold in place with a piece of duct tape (or glue in place)
7. Cut a hole in the center front of the car (for the balloon nozzle).
8. Choose a heavy weight balloon. Blow up the balloon several times to stretch it (one person!!).
9. Get a straw, and cut it into 3rd. Attach 1/3 of a straw into the mouth of the balloon.
10. Place the balloon nozzle through the hole in the car, and secure it in place with duct tape.
11. Blow up the balloon (same person!!!) and hold until ready to test the car.
12. Let it go, and watch the racer go!
13. Adjust the wheels or body as necessary until your car performs the way you want it to.
14. Complete Science Notebook page 15 to map the energy transfers of your car.

*Tissue Box/Coffee Can Racer*

Materials:

* Coffee can/Tissue Box
* 2 plastic coffee can lids
* Rubber band
* Large paper clip
* Tape
* Bead
* Pencil

Directions:

1. Hook a large paper clip onto the rubber band.
2. Push the rubber band through the hole on one of the coffee can lids.
3. Keep the paper clip attached to the rubber band on the outside of the lid.
4. Tape the paper clip flat onto the lid to keep it from pulling through the hole.
5. Place the lid on one end of the coffee can.
6. Pull the rubber band through the coffee can and through the hole of the other lid.
7. Set this second lid in place on the coffee can.
8. Push the rubber band through the hole in a bead.
9. Slide the bead down the rubber band so it sits against the lid.
10. Pass a pencil through the loop in the rubber band on the opposite side of the bead.
11. Adjust the pencil so one end sits flush against the edge of the coffee can lid and the opposite end extends beyond the lid.
12. Twist the pencil around the lid to wind the rubber band inside.
13. Set the coffee can on a flat surface, and release the pencil to send it rolling.
14. Complete Science Notebook page 15 to map the energy transfers of your car.